ABSTRACT

An object device wirelessly communicating with at least one node is located. The nodes wirelessly communicating with the object device are discovered. The nodes are discovered either by querying nodes to discover whether the object device is wirelessly communicating with the nodes or querying nodes to discover devices wirelessly communicating with each node, generating an index of devices wirelessly communicating with each node and the nodes to which each device is wirelessly communicating, selecting the object device from the index, and reading the index to discover the nodes wirelessly communicating with the object device. For each node wirelessly communicating with the object device, a location of a coverage area for the node is discovered. The location of the coverage area for each node is discovered by either reading the location of the coverage area for each node or reading a node location and calculating the location of the coverage area from the node location. From the location of the coverage area for each node wirelessly communicating with the object device, an area of location for the object device is discovered. The area of location for the object device is discovered either by discovering a region common to the coverage areas for each node communicating wirelessly with the object device, discovering a region excluding the coverage areas for each node not communicating wirelessly with the object device, or both.